

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/718,355 F
Source: IFW16
Date Processed by STIC: 1-6-05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 01/06/2005

PATENT APPLICATION: US/09/718,355F

TIME: 16:20:06

Input Set : E:\GOUD023APP.txt

Output Set: N:\CRF4\01062005\I718355F.raw

3 <110> APPLICANT: McGill University
 4 Rouleau, Guy A.
 5 Ragsdale, David
 6 Cossette, Patrick
 7 Rocherfort, Daniel
 8 Lafreniere, Ronald G.
 10 <120> TITLE OF INVENTION: LOCI FOR IDIOPATHIC GENERALIZED EPILEPSY, MUTATIONS THEREOF
 AND
 11 METHOD USING SAME TO ASSESS, DIAGNOSE, PROGNOSIS OR TREAT EPILEPSY
 13 <130> FILE REFERENCE: GOUD:023US
 15 <140> CURRENT APPLICATION NUMBER: 09/718,355F
 16 <141> CURRENT FILING DATE: 2000-11-24
 18 <150> PRIOR APPLICATION NUMBER: 60/167,623
 19 <151> PRIOR FILING DATE: 1999-11-26
 21 <160> NUMBER OF SEQ ID NOS: 408
 23 <170> SOFTWARE: PatentIn version 3.2
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 8378
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo sapiens
 30 <400> SEQUENCE: 1
 31 tactgcagag gtctctggtg catgtgtgta tgtgtgcggt tgtgtgtgtt tgtgtgtctg 60
 33 tgtgttctgc cccagtgcga ctgcagccct tgtaaatact ttgacacctt ttgcaagaag 120
 35 gaatctgaac aattgcaact gaaggcacat tgttatcatc tcgtcttttg gtgatgctgt 180
 37 tcctcactgc agatggataa ttttcctttt aatcaggaat ttcatatgca gaataaatgg 240
 39 taattaaaaat gtgcaggatg acaagatgga gcaaacagtg cttgtaccac caggacctga 300
 41 cagcttcaac ttcttcacca gagaatctct tgcggctatt gaaagacgca ttgcagaaga 360
 43 aaaggcaaaag aatcccaaac cagacaaaaa agatgacgac gaaaatggcc caaagccaaa 420
 45 tagtgacttg gaagctggaa agaaccttcc atttatattt ggagacattc ctccagagat 480
 47 ggtgtcagag cccctggagg acctggacct ctactatatc aataagaaaa cttttatagt 540
 49 attgaataaaa ggggaaggcca tcttccgggt cagtgccacc tctgccctgt acattttaac 600
 51 tcccttcaat cctcttagga aaatagctat taagattttg gtacattcat tattcagcat 660
 53 gctaattatg tgcactattt tgacaaactg tgtgtttatg acaatgagta accctcctga 720
 55 ttggacaaaag aatgtagaat acaccttcac aggaatatat acttttgaat cacttataaa 780
 57 aattattgca aggggattct gtttagaaga ttttactttc cttcgggatc catggaactg 840
 59 gctcgatttc actgtcatta catttgcgta cgtcacagag tttgtggacc tgggcaatgt 900
 61 ctcggcattg agaacattca gagttctccg agcattgaag acgatttcag tcattccagg 960
 63 cctgaaaacc attgtgggag ccctgatcca gtctgtgaag aagctctcag atgtaatatg 1020
 65 cctgactgtg ttctgtctga gcgtatttgc tctaattggg ctgcagctgt tcatgggcaa 1080
 67 cctgaggaat aaatgtatac aatggcctcc caccaatgct tccttgaggg aacatagtat 1140
 69 agaaaagaat ataactgtga attataatgg tacacttata aatgaaactg tctttgagtt 1200
 71 tgactggaag tcatatattc aagattcaag atatcattat ttcttgaggg gttttttaga 1260
 73 tgcactacta tgtggaaata gctctgatgc aggccaatgt ccagagggat atatgtgtgt 1320
 75 gaaagctggt agaaatccca attatggcta cacaagcttt gataccttca gttgggcttt 1380

(ps. 6)

RAW SEQUENCE LISTING

DATE: 01/06/2005

PATENT APPLICATION: US/09/718,355F

TIME: 16:20:06

Input Set : E:\GOUD023APP.txt

Output Set: N:\CRF4\01062005\I718355F.raw

77	tttgtccttg	tttcgactaa	tgactcagga	cttctgggaa	aatctttatc	aactgacatt	1440
79	acgtgctgct	gggaaaacgt	acatgatatt	ttttgtattg	gtcattttct	tgggctcatt	1500
81	ctaccttaata	aatttgatcc	tggctgtggt	ggccatggcc	tacgaggaac	agaatcaggc	1560
83	caccttggaa	gaagcagaac	agaaagaggc	cgaatttcag	cagatgattg	aacagcttaa	1620
85	aaagcaacag	gaggcagctc	agcaggcagc	aacggcaact	gcctcagaac	attccagaga	1680
87	gccagtgca	gcaggcaggc	tctcagacag	ctcatctgaa	gcctctaagt	tgagttccaa	1740
89	gagtgctaag	gaaagaagaa	atcggaggaa	gaaaagaaaa	cagaaagagc	agtctggtgg	1800
91	ggaagagaaa	gatgaggatg	aattccaaaa	atctgaatct	gaggacagca	tcaggaggaa	1860
93	aggttttcgc	ttctccattg	aagggaaccg	attgacatat	gaaaagaggt	actcctcccc	1920
95	acaccagtct	ttgttgagca	tccgtggctc	cctattttca	ccaaggcgaa	atagcagaac	1980
97	aagccttttc	agcttttagag	ggcgagcaaa	ggatgtggga	tctgagaacg	acttcgcaga	2040
99	tgatgagcac	agcacctttg	aggataacga	gagccgtaga	gattccttgt	ttgtgccccg	2100
101	acgacacgga	gagagacgca	acagcaacct	gagtcagacc	agtaggtcat	cccggatgct	2160
103	ggcagtggtt	ccagcgaaatg	ggaagatgca	cagcactgtg	gattgcaatg	gtgtgggttc	2220
105	cttgggttgg	ggaccttcag	ttcctacatc	gcctgttgga	cagcttctgc	cagaggtgat	2280
107	aatagataag	ccagctactg	atgacaatgg	aacaaccact	gaaactgaaa	tgagaaagag	2340
109	aaggtcaagt	tctttccacg	tttccatgga	ctttctagaa	gatccttccc	aaaggcaacg	2400
111	agcaatgagt	atagccagca	ttctaacaaa	tacagtagaa	gaacttgaag	aatccaggca	2460
113	gaaatgccca	ccctgttggg	ataaattttc	caacatattc	ttaatctggg	actgttctcc	2520
115	atattggtta	aaagtgaaac	atgttgtcaa	cctgggtgtg	atggacccat	ttgttgacct	2580
117	ggccatcacc	atctgtattg	tcttaaatac	tcttttcattg	gccatggagc	actatccaat	2640
119	gacggaccat	ttcaataatg	tgcttacagt	aggaaacttg	gttttcaactg	ggatctttac	2700
121	agcagaaatg	tttctgaaaa	ttattgccat	ggatccttac	tattatttcc	aagaaggctg	2760
123	gaatatcttt	gacggtttta	ttgtgacgct	tagcctggta	gaacttggac	tcgccaatgt	2820
125	ggaaggatta	tctgttctcc	gttcatttctg	attgctgcga	gttttcaagt	tggcaaaatc	2880
127	ttggccaacg	ttaaatatgc	taataaagat	catcggaat	tccgtggggg	ctctgggaaa	2940
129	tttaaccctc	gtcttggcca	tcacgtctct	catttttggc	gtggtcggca	tgcagctctt	3000
131	tggtaaaagc	tacaaagatt	gtgtctgcaa	gatcgccagt	gattgtcaac	tcccacgctg	3060
133	gcacatgaat	gacttcttcc	actccttcc	gattgtgttc	cgcggtgctgt	gtggggagtg	3120
135	gatagagacc	atgtgggact	gtatggaggt	tgctgggtcaa	gccatgtgcc	ttactgtctt	3180
137	catgatggtc	atgggtgattg	gaaacctagt	ggctcctgaat	ctctttctgg	ccttgcttct	3240
139	gagctcattt	agtgcagaca	accttgcagc	cactgatgat	gataatgaaa	tgaataatct	3300
141	ccaaattgct	gtggatagga	tgacaaaagg	agtagcttat	gtgaaaagaa	aaatatatga	3360
143	atattattcaa	cagtccttca	ttaggaaaaca	aaagatttta	gatgaaatta	aaccacttga	3420
145	tgatctaaac	aacaagaaag	acagttgtat	gtccaatcat	acagcagaaa	ttgggaaaga	3480
147	tcttgactat	cttaaagatg	taaatggaac	tacaagtggg	ataggaactg	gcagcagtg	3540
149	tgaaaaatac	attattgatg	aaagtgatta	catgtcattc	ataaacaacc	ccagtcttac	3600
151	tgtgactgta	ccaattgctg	taggagaatc	tgactttgaa	aattttaaca	cgggaagactt	3660
153	tagtagtgaa	tcggatctgg	aagaaagcaa	agagaaactg	aatgaaagca	gtagctcatc	3720
155	agaaggtagc	actgtggaca	tcggcgccacc	tgtagaagaa	cagcccgtag	tggaaacctga	3780
157	agaaactctt	gaaccagaag	cttgtttcac	tgaaggctgt	gtacaaagat	tcaagtgttg	3840
159	tcaaataaat	gtggaagaag	gcagaggaaa	acaatggtgg	aacctgagaa	ggacgtgttt	3900
161	ccgaatagtt	gaacataact	ggtttgagac	cttcattgtt	ttcatgattc	tccttagtag	3960
163	tgggtgctcg	catttgaaga	tatatattat	gatcagcgaa	agacgattaa	gacgatgttg	4020
165	gaatatgctg	acaaggtttt	cacttacatt	ttcattctgg	aaatgcttct	aaaatgggtg	4080
167	gcataatggc	atcaaacata	tttccaacat	gcctgggtgt	ggctggactt	cttaattggt	4140
169	gatgtttcat	tggtcagttt	aacagcaaat	gccttgggtt	actcagaact	tggagccatc	4200
171	aaatctctca	ggacactaag	agctctgaga	cctctaagag	ccttatctcg	atgtgaaggg	4260
173	atgaggggtg	ttgtgaatgc	ccttttagga	gcaattccat	ccatcatgaa	tgtgcttctg	4320

RAW SEQUENCE LISTING

DATE: 01/06/2005

PATENT APPLICATION: US/09/718,355F

TIME: 16:20:06

Input Set : E:\GOUD023APP.txt

Output Set: N:\CRF4\01062005\I718355F.raw

175	gtttgtctta	tattctggct	aattttcagc	atcatgggcg	taaatttggt	tgctggcaaa	4380
177	ttctaccact	gtattaacac	cacaactggt	gacaggtttg	acatcgaaga	cgtgaataat	4440
179	catactgatt	gcctaaaact	aatagaaaga	aatgagactg	ctcgatggaa	aaatgtgaaa	4500
181	gtaaactttg	ataatgtagg	atttgggtat	ctctctttgc	ttcaagttgc	cacattcaaa	4560
183	ggatggatgg	atataatgta	tgcagcagtt	gattccagaa	atgtggaact	ccagcctaag	4620
185	tatgaagaaa	gtctgtacat	gtatctttac	tttgttattt	tcatcatctt	tggtgccttc	4680
187	ttcaccttga	acctgtttat	tgggtgtcatc	atagataatt	tcaaccagca	gaaaaagaag	4740
189	tttggaaggc	aagacatctt	tatgacagaa	gaacagaaga	aatactataa	tgcaatgaaa	4800
191	aaattaggat	cgaaaaaacc	gcaaaagcct	atacctcgac	caggaaacaa	atttcaagga	4860
193	atggtctttg	acttcgtaac	cagacaagtt	tttgacataa	gcatcatgat	tctcatctgt	4920
195	cttaacatgg	tcacaatgat	ggtggaaaca	gatgaccaga	gtgaatatgt	gactaccatt	4980
197	ttgtcacgca	tcaatctggg	gttcattgtg	ctatttactg	gagagtgtgt	actgaaactc	5040
199	atctctctac	gccattatta	ttttaccatt	ggatggaaata	tttttgattt	tgtggttgct	5100
201	attctctcca	ttgtaggtat	gtttcttgcc	gagctgatag	aaaagtattt	cgtgtccctt	5160
203	acctgttcc	gagtgatccg	tcttgctagg	attggccgaa	tcctacgtct	gatcaaagga	5220
205	gcaaagggga	tcgcacgct	gctctttgct	ttgatgatgt	cccttcctgc	gttgtttaac	5280
207	atcggcctcc	tactcttcct	agtcatgttc	atctacgcca	tctttgggat	gtccaacttt	5340
209	gcctatgtta	agagggaagt	tgggatcgat	gacatgttca	actttgagac	ctttggcaac	5400
211	agcatgatct	gcctattcca	aattacaacc	tctgctggct	gggatggatt	gctagcacc	5460
213	attctcaaca	gtaagccacc	cgactgtgac	cctaataaag	ttaaccctgg	aagctcagtt	5520
215	aaggagact	gtgggaaccc	atctgttgga	attttctttt	ttgtcagtta	catcatcata	5580
217	tccttcctgg	ttgtggtgaa	catgtacatc	gcggtcatcc	tggagaactt	cagtgttgct	5640
219	actgaagaaa	gtgcagagcc	tctgagtgag	gatgactttg	agatgttcta	tgaggtttgg	5700
221	gagaagtttg	atcccgatgc	aactcagttc	atggaatttg	aaaaattatc	tcagtttgca	5760
223	gctgcgcttg	aaccgcctct	caatctgcca	caaccaaaaca	aactccagct	cattgccatg	5820
225	gatttgccca	tggtagtggt	tgaccggatc	cactgtcttg	atatcttatt	tgtttttaca	5880
227	aagcgggttc	taggagagag	tggagagatg	gatgctctac	gaatacagat	ggaagagcga	5940
229	ttcatggctt	ccaatccttc	caaggctctc	tatcagccaa	tcactactac	tttaaaacga	6000
231	aaacaagag	agtagtctgc	tgtcattatt	cagcgtgctt	acagacgcca	ccttttaaaag	6060
233	cgaactgtaa	aacaagcttc	ctttacgtac	aataaaaaca	aaatcaaagg	tggggctaat	6120
235	cttcttataa	aagaagacat	gataattgac	agaataaatg	aaaactctat	tacagaaaaa	6180
237	actgatctga	ccatgtccac	tgcagcttgt	ccaccttcct	atgaccgggt	gacaaagcca	6240
239	attgtgga	aacatgagca	agaaggcaaa	gatgaaaaag	ccaaagggaa	ataaatgaaa	6300
241	ataaataaaa	ataattgggt	gacaaattgt	ttacagcctg	tgaaggatg	gtatttttat	6360
243	caacaggact	cctttaggag	gtcaatgcca	aactgactgt	ttttacacaa	atctccttaa	6420
245	ggtcagtgcc	tacaataaga	cagtgaaccc	ttgtcagcaa	actgtgactc	tgtgtaaagg	6480
247	ggagatgacc	ttgacaggag	gttactgttc	tcactaccag	ctgacactgc	tgaagataag	6540
249	atgcacaatg	gctagtcaga	ctgtagggac	cagtttcaag	gggtgcaaac	ctgtgatttt	6600
251	ggggttggtt	aacatgaaac	actttagtg	agtaattgta	tccactgttt	gcatttcaac	6660
253	tgccacattt	gtcacatttt	tatggaatct	gttagtggtg	tcatcttttt	gttaatccat	6720
255	gtgtttatta	tatgtgacta	tttttgtaaa	cgaagtttct	gttgagaaat	aggctaagga	6780
257	cctctataac	aggtatgcca	cctggggggg	atggcaacca	catggccctc	ccagctacac	6840
259	aaagtgcgtg	tttgcagtag	ggcatgctgc	acttagagat	catgcatgag	aaaaagtcac	6900
261	aagaaaaaca	aattcttaaa	tttcaccata	tttctgggag	gggtaattgg	gtgataagtg	6960
263	gaggtgcttt	gttgatcttg	ttttgcgaaa	tccagccctt	agaccaagta	gattattttg	7020
265	gggtaggcca	gtaaatctta	gcagggtgca	acttcattca	aatgtttgga	gtcataaatg	7080
267	ttatgtttct	ttttgttgta	ttaaaaaaa	aacctgaata	gtgaatattg	ccctcacc	7140
269	tccaccgcca	gaagactgaa	ttgaccaaaa	ttactcttta	taaatttctg	cttttctctg	7200
271	cactttggtt	agccatcttc	ggctctcagc	aagggtgaca	ctgtatatgt	taatgaaatg	7260

RAW SEQUENCE LISTING

DATE: 01/06/2005

PATENT APPLICATION: US/09/718,355F

TIME: 16:20:06

Input Set : E:\GOUD023APP.txt

Output Set: N:\CRF4\01062005\I718355F.raw

```

273 ctattttatta tgtaaatagt cattttaccc tgtggtgcac gtttgagcaa acaataatg 7320
275 acctaagcac agtattttatt gcatcaaata tgtaccacaa gaaatgtaga gtgcaagctt 7380
277 tacacaggta ataaaatgta ttctgtacca tttatagata gtttgatgc tatcaatgca 7440
279 tgtttatatt accatgctgc tgtatctggt ttctctcact gctcagaatc tcatttatga 7500
281 gaaaccatat gtcagtggta aagtcaagga aattgttcaa cagatctcat ttattttaagt 7560
283 cattaagcaa tagtttgcag cactttaaca gctttttggt tatttttaca ttttaagtgg 7620
285 ataacatatg gtatatagcc agactgtaca gacatgttta aaaaaacaca ctgcttaacc 7680
287 tattaatatg gtgtttagaa ttttataagc aaatataaat actgtaaaaa gtcactttat 7740
289 tttatttttc agcattatgt acataaatat gaagaggaaa ttatcttcag gttgatatca 7800
291 caatcacttt tcttactttc tgtccatagt actttttcat gaaagaaatt tgctaaataa 7860
293 gacatgaaaa caagactggg tagttgtaga tttctgcttt tttaaattaca tttgctaatt 7920
295 ttagattatt tcacaatttt aaggagcaaa ataggttcac gattcatatc caaattatgc 7980
297 tttgcaattg gaaaagggtt taaaatttta tttatatattc tggtagtacc tgcactaact 8040
299 gaattgaagg tagtgcttat gttatttttg ttcttttttt ctgacttcgg tttatgtttt 8100
301 catttctttg gagtaatgct gctctagtgt ttctaaatag aatgtgggct tcataatttt 8160
303 tttttccaca aaaacagagt agtcaactta tatagtcaat tacatcagga cattttgtgt 8220
305 ttcttacaga agcaaaccat aggtcctct tttccttaaa actacttaga taaactgtat 8280
307 tcgtgaactg catgctggaa aatgctacta ttatgctaaa taatgctaac caacatttaa 8340
309 aatgtgcaaa actaataaag attacatttt ttatttta 8378
312 <210> SEQ ID NO: 2
313 <211> LENGTH: 8378
314 <212> TYPE: DNA
315 <213> ORGANISM: Homo sapiens
317 <400> SEQUENCE: 2
318 tactgcagag gtctctggtg catgtgtgta tgtgtgcggt tgtgtgtgtt tgtgtgtctg 60
320 tgtgttctgc cccagtgaga ctgcagccct tgtaaatact ttgacacctt ttgcaagaag 120
322 gaatctgaac aattgcaact gaaggcacat tgttatcatc tcgtcttttg gtgatgctgt 180
324 tcctcactgc agatggataa ttttcctttt aatcaggaat ttcatatgca gaataaatgg 240
326 taattaaaaat gtgcaggatg acaagatgga gcaaacagtg cttgtaccac caggacctga 300
328 cagcttcaac ttcttcacca gagaatctct tgcggtctatt gaaagacgca ttgcagaaga 360
330 aaaggcaaaag aatcccaaac cagacaaaaa agatgacgac gaaaatggcc caaagccaaa 420
332 tagtgacttg gaagctggaa agaacccttc atttatttat ggagacattc ctccagagat 480
334 ggtgtcagag cccctggagg acctggaccc ctactatata aataagaaaa cttttatagt 540
336 attgaataaa ggggaaggcca tcttccggtt cagtgccacc tctgccctgt acattttaac 600
338 tcccttcaat cctcttagga aaatagctat taagattttg gtacattcat tattcagcat 660
340 gctaattatg tgcactatit tgacaaactg tgtgtttatg acaatgagta accctcctga 720
342 ttggacaaag aatgtagaat acaccttcac aggaatatat acttttgaat cacttataaa 780
344 aattattgca aggggattct gtttagaaga ttttactttc cttcgggatc catggaactg 840
346 gctcgatttc actgtcatta catttgcgtt tgtaacagaa tttgtaaac taggcaattt 900
348 ttcagctctt cgcactttca gagtcttgag agctttgaaa actatttcgg taattccagg 960
350 cctgaaaacc attgtgggag ccctgatcca gtctgtgaag aagctctcag atgtaatgat 1020
352 cctgactgtg ttctgtctga gcgtatttgc tctaattggg ctgcagctgt tcatgggcaa 1080
354 cctgaggaat aaatgtatac aatggcctcc caccaatgct tccttgaggg aacatagtat 1140
356 agaaaagaat ataactgtga attataatgg tacacttata aatgaaactg tctttgagtt 1200
358 tgactggaag tcatatattc aagattcaag atatcattat ttcctggagg gttttttaga 1260
360 tgcactacta tgtggaaata gctctgatgc aggcacatgt ccagagggat atatgtgtgt 1320
362 gaaagctggg agaaatccca attatggcta ccaagcttt gataccttca gttgggcttt 1380
364 tttgtccttg tttcgactaa tgactcagga cttctgggaa aatctttatc aactgacatt 1440
366 acgtgctgct gggaaaacgt acatgatatt ttttgtattg gtcattttct tgggctcatt 1500

```

RAW SEQUENCE LISTING

DATE: 01/06/2005

PATENT APPLICATION: US/09/718,355F

TIME: 16:20:06

Input Set : E:\GOUD023APP.txt

Output Set: N:\CRF4\01062005\I718355F.raw

368	ctacctaata	aatttgatcc	tggctgtggt	ggccatggcc	tacgaggaac	agaatcaggc	1560
370	caccttgga	gaagcagaac	agaaagaggc	cgaatttcag	cagatgattg	aacagcttaa	1620
372	aaagcaacag	gaggcagctc	agcaggcagc	aacggcaact	gcctcagaac	attccagaga	1680
374	gcccagtgca	gcaggcaggc	tctcagacag	ctcatctgaa	gcctctaagt	tgagttccaa	1740
376	gagtgcctaag	gaaagaagaa	atcggaggaa	gaaaagaaaa	cagaaagagc	agtctggtgg	1800
378	ggaagagaaa	gatgaggatg	aattccaaaa	atctgaatct	gaggacagca	tcaggaggaa	1860
380	aggttttcgc	ttctccattg	aagggaaccg	attgacatat	gaaaagaggt	actcctcccc	1920
382	acaccagtct	ttgttgagca	tccgtggctc	cctattttca	ccaaggcgaa	atagcagaac	1980
384	aagccttttc	agcttttagag	ggcgagcaaa	ggatgtggga	tctgagaacg	acttcgcaga	2040
386	tgatgagcca	gcacctttga	ggataacgag	agccgtagag	attccttggt	tgtgccccga	2100
388	cgacacggag	agagacgcaa	cagcaacctg	agtcagacca	gtaggtcatc	ccggatgctg	2160
390	gcagtgtttc	cagcgaatgg	gaagatgcac	agcactgtgg	attgcaatgg	tgtggtttcc	2220
392	ttggttgggtg	gaccttcagt	tcctacatcg	cctgttggac	agcttctgcc	agaggtgata	2280
394	atagataagc	cagctactga	tgacaatgga	acaaccactg	aaactgaaat	gagaaagaga	2340
396	aggtcaagtt	ctttccacgt	ttccatggac	tttctagaag	atccttccca	aaggcaacga	2400
398	gcaatgagta	tagccagcat	tctaacaaat	acagtagaag	aacttgaaga	atccaggcag	2460
400	aaatgcccac	cctgttggta	taaattttcc	aacatattct	taatctggga	ctgttctcca	2520
402	tattggttaa	aagtgaacaa	tgttgtcaac	ctggttgtga	tggaccatt	tgttgacctg	2580
404	gccatcacca	tctgtattgt	cttaataact	cttttcatgg	ccatggagca	ctatccaatg	2640
406	acggaccatt	tcaataatgt	gcttacagta	ggaaacttgg	ttttcactgg	gatctttaca	2700
408	gcagaaatgt	ttctgaaaat	tattgccatg	gatccttact	attatttcca	agaaggctgg	2760
410	aatatctttg	acggttttat	tgtgacgctt	agcctggtag	aacttggact	cgccaatgtg	2820
412	gaaggattat	ctgttctccg	ttcattttcga	ttgctgcgag	ttttcaagtt	ggcaaaatct	2880
414	tggccaacgt	taaatatgct	aataaagatc	atcggcaatt	ccgtgggggc	tctgggaaat	2940
416	ttaaccctcg	tcttgccat	catcgtcttc	atttttgccg	tggctggcat	gcagctcttt	3000
418	ggtaaaagct	acaaagattg	tgtctgcaag	atcgccagtg	attgtcaact	cccacgctgg	3060
420	cacatgaatg	acttcttcca	ctccttcctg	attgtgttcc	gcgtgctgtg	tggggagtgg	3120
422	atagagacca	tgtgggactg	tatggagggt	gctgggtcaag	ccatgtgcct	tactgtcttc	3180
424	atgatggcca	tgggtgattg	aaacctagtg	gtcctgaatc	tctttctggc	cttgcttctg	3240
426	agctcattta	gtgcagacaa	ccttgacgcc	actgatgatg	ataatgaaat	gaataatctc	3300
428	caaattgctg	tggataggat	gcacaaaagg	gtagcttatg	tgaaaagaaa	aatatatgaa	3360
430	tttattcaac	agtccttcat	taggaaacaa	aagattttag	atgaaattaa	accacttgat	3420
432	gatctaaaca	acaagaaaga	cagttgtatg	tccaatcata	cagcagaaat	tgggaaagat	3480
434	cttgactatc	ttaaagatgt	aaatggaact	acaagtggta	taggaaactg	cagcagtgtt	3540
436	gaaaaataca	ttattgatga	aagtgattac	atgtcattca	taaacaaccc	cagtcttact	3600
438	gtgactgtac	caattgctgt	aggagaatct	gactttgaaa	atttaaacac	ggaagacttt	3660
440	agtagtgaat	cggatctgga	agaaagcaaa	gagaaactga	atgaaagcag	tagctcatca	3720
442	gaaggtagca	ctgtggacat	cggcgacact	gtagaagaac	agcccgtagt	ggaacctgaa	3780
444	gaaactcttg	aaccagaagc	ttgtttcact	gaaggctgtg	tacaaagatt	caagtgttgt	3840
446	caaatcaatg	tggaagaagg	cagaggaaaa	caatggtgga	acctgagaag	gacgtgtttc	3900
448	cgaatagttg	aacataactg	gtttgagacc	ttcattgttt	tcatgattct	ccttagtagt	3960
450	ggtgctctgg	catttgaaga	tatatatatt	gatcagcgaa	agacgattaa	gacgatgttg	4020
452	gaatatgctg	acaaggtttt	cacttacatt	ttcattctgg	aaatgcttct	aaaatgggtg	4080
454	gcatatggct	atcaaaaatat	ttcaccaatg	cctggtgttg	gctggacttc	ttaatgtttg	4140
456	atgtttcatt	ggtcagttta	acagcaaatg	ccttgggtta	ctcagaactt	ggagccatca	4200
458	aatctctcag	gacactaaga	gctctgagac	ctctaagagc	cttatctcga	tttgaaggga	4260
460	ttaggggtggt	tgtgaatgcc	cttttaggag	caattccatc	catcatgaat	gtgcttctgg	4320
462	tttgtcttat	attctggcta	attttcagca	tcattggcgt	aaatttggtt	gctggcaaat	4380
464	tctaccactg	tattaacacc	acaactgggtg	acaggtttga	catcgaagac	gtgaataatc	4440

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/06/2005
PATENT APPLICATION: US/09/718,355F TIME: 16:20:07

Input Set : E:\GOUD023APP.txt
Output Set: N:\CRF4\01062005\I718355F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; N Pos. 393,415,454,513
Seq#:29; N Pos. 43
Seq#:41; N Pos. 293
Seq#:42; N Pos. 133
Seq#:44; N Pos. 229
Seq#:48; N Pos. 164
Seq#:55; N Pos. 90,378,379,380,381,382,383,384,385,386
Seq#:67; Xaa Pos. 122
Seq#:68; Xaa Pos. 122
Seq#:84; N Pos. 477

VERIFICATION SUMMARY

DATE: 01/06/2005

PATENT APPLICATION: US/09/718,355F

TIME: 16:20:07

Input Set : E:\GOUD023APP.txt

Output Set: N:\CRF4\01062005\I718355F.raw

L:2200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360
M:341 Repeated in SeqNo=23
L:2350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:4304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:240
L:4327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:120
L:4377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:180
L:4497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:120
L:4727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:60
M:341 Repeated in SeqNo=55
L:5742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:112
L:6259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:112
L:7198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:420